

CHAPTER 3

**Guided Reading Strategies 3.1
Weather and Climate**

READING THE SECTION As you read the section, circle the boldface word or phrase that *best* completes each statement below.

- 1. Weather / Climate** is the condition of the atmosphere at a given time and place.
- The measurement of heat is called **temperature / global warming**.
- The term **lighthouse effect / greenhouse effect** refers to the process by which Earth's atmosphere traps heat energy.
- At very high altitudes the air is too **thin / thick** for humans to breathe.
- All centers of low pressure are called **doldrums / cyclones**.
- Wind is the **horizontal / vertical** flow of air.
- Wind always flows from **high / low** pressure areas to **high / low** pressure areas.
- A front occurs when two air masses of **the same / widely different** temperatures or moisture levels meet.
- Water / Land** heats and cools more slowly than **water / land**.
- Ocean currents move **counterclockwise / clockwise** in the Northern Hemisphere.

POST-READING QUICK CHECK After you have finished reading the section, in the space provided, identify the four major air pressure zones.

- 1. Air Pressure Zone:** _____
- 2. Air Pressure Zone:** _____
- 3. Air Pressure Zone:** _____
- 4. Air Pressure Zone:** _____